PATENT ABSTRACTS OF JAPAN

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(21)Application number : 03-159104   (71)Applicant : SHARP CORP

(22)Date of filing :   28.06.1991   (72)Inventor : AKAHA TATSUO
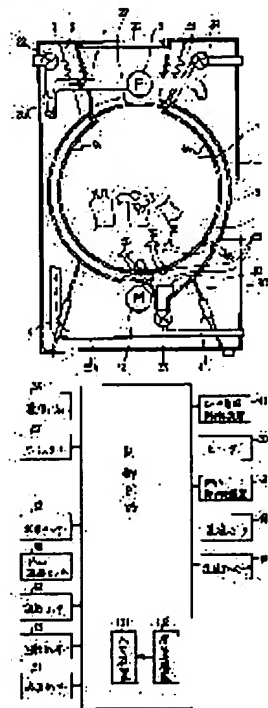   SUSAMI MASAFUMI

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(54) FULLY AUTOMATIC WASHING MACHINE WITH DRYER

(57)Abstract:

PURPOSE: To prevent the overdrying of washed articles by measuring the quantity of washed articles in a drum in the washing process from a motor electric current and memorizing the quantity of the washed articles, and setting the drying time in correspondence with the quantity.

CONSTITUTION: Since the dc motor 12 of a water tank 5 is controlled through the PWM method by a PWM controller 12 through a control circuit MC, if the revolution driving torque of a drum 7 increases, the electric current value increases automatically, and control is performed, keeping the prescribed number of revolution. The electric current supplied to the dc motor 12 is memorized and calculated by the controller MC, and used as the data in the fuzzy estimation for the quality and quantity of washed articles W. Since the quantity of the washed article W is memorized in the controller MC, the drying completion time can be estimated approximately in the continuous process from washing to drying, and drying is allowed to proceed through the fuzzy estimation and control. And the thermal output of a heater 30 is varied nearly at the drying completion time, and drying can be completed with a desired degree of drying.

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